

# Rapid Coomassie Electrophoresis Stain



## MATERIAL SAFETY DATA SHEET (MSDS)

MSSG010 v4.1

### SECTION 1 COMPANY AND PRODUCT IDENTIFICATION

<b>Manufacturer</b>	NuSep Ltd 324 Burns Bay Road, Lane Cove NSW 2066 Australia ABN 81 134 281 977	<b>Phone:</b> 61 2 8415 7300 <b>Fax:</b> 61 2 8415 7399 <b>Email:</b> sales@nusep.com <b>Internet:</b> www.nusep.com
<b>Date of Issue</b>	March 2011 Classified as hazardous according to criteria of NOHSC. Not classified as dangerous goods according to the ADG Code.	
<b>Product Name</b>	Rapid Coomassie Electrophoresis Stain	
<b>Other Names</b>	none	
<b>Product Code</b>	SG-010	
<b>Container Size</b>	500 mL	
<b>Product Use</b>	Laboratory reagent used as a protein stain.	

### SECTION 2 COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients	CAS No.	Proportion, %
Methanol	67-56-1	< 20
Perchloric acid	7601-90-3	< 8
Water	7732-18-5	to 100
Ingredients	CAS No.	Proportion, %
Methanol		

### SECTION 3 HAZARDS IDENTIFICATION

<b>Health Hazard Classification</b>	IRRITANT ( Xi )
<b>UN Classification</b>	Not a Dangerous Good
<b>UN Number</b>	None allocated
<b>Poison Schedule (SUSDP)</b>	Not a Scheduled Poison

#### EMERGENCY OVERVIEW

<b>Product</b>	Rapid Coomassie Electrophoresis Stain is a brown liquid with a mild alcohol odour, packaged in plastic bottles.
<b>Risk Phrases</b>	R20/22 Harmful by inhalation and if swallowed. R36/38 Irritating to the eyes and skin.
<b>Safety Phrases</b>	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36 Wear suitable protective clothing

#### POTENTIAL HEALTH EFFECTS

<b>Inhalation</b>	Data suggests that this product is harmful if inhaled.
<b>Skin contact</b>	This product is irritating to skin. It is likely to cause discomfort and effects such as moderate to severe itchiness, blistering and skin reddening.
<b>Eye contact</b>	This product is severely irritating to the eyes. It will cause intense discomfort such as severe pain, copious watering and redness of the eyes. Effects will last long after exposure has ceased, and in severe exposure, permanent effects such as corneal damage or blindness can occur.
<b>Ingestion</b>	Data suggests that this product is harmful if swallowed.
<b>Chronic Exposure</b>	No specific data is available for the product for chronic exposure symptoms.

#### CARCINOGEN STATUS

Ingredients are not classified as human carcinogens by the International Agency for Research on Cancer (IARC).

### SECTION 4 FIRST AID MEASURES

<b>Inhalation</b>	Remove source of contamination or move victim to fresh air. Obtain medical advice immediately.
<b>Skin contact</b>	As quickly as possible, flush with lukewarm, gently flowing water for 5 minutes, or until the chemical is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). If irritation persists, repeat flushing. Obtain medical advice immediately.
<b>Eye contact</b>	Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes, or until the chemical is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately.
<b>Ingestion</b>	If swallowed, wash out mouth with water, provided person is conscious. Have victim drink 240 to 300 mL (8 to 10 oz.) of water to dilute material in stomach. DO NOT INDUCE VOMITING. If vomiting occurs naturally, rinse mouth and repeat administration of water. Obtain medical advice immediately.
<b>Advice to Doctor</b>	Treat symptomatically. Note the nature of this product.

### SECTION 5 FIRE FIGHTING MEASURES

<b>Flashpoint</b>	Expected to flash below 60°C. Methanol content will not sustain combustion. Not classed a "flammable liquid".
<b>Flammable Limits</b>	Not applicable.
<b>Extinguishing Media</b>	Product is unlikely to burn. Use media suited to the materials that are burning.
<b>Hazardous Combustion Products</b>	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Hydrogen chloride gas, chlorides, and under some circumstances, phosgene which is a toxic gas.
<b>Unusual Fire &amp; Explosion Hazards</b>	There is a slight risk of an explosion from this product if it is involved in a fire. Fire fighters should take care and appropriate precautions. All skin areas should be covered. A respirator may be necessary. Fire decomposition products from this product may form toxic and corrosive mixtures in confined spaces. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back considerable distances.
<b>Sensitivity to Mechanical</b>	Data not available.

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### Impact or Static Charge

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

The container size is 500 mL or less, therefore a major spill is unlikely. Spillage can be taken up with absorbent material such as sand or vermiculite. Avoid using sawdust or other combustible material. Wear protective chemically resistant clothing including facemask, face shield and gloves. After spills, wash area, preventing, run-off from entering drains or watercourses. Contaminated area may be neutralised by washing with weak or dilute alkali.

#### SECTION 7 HANDLING AND STORAGE

**Handling** Avoid contact with eyes, skin and clothing. Always wash hands immediately after use. Wash contaminated clothing and other protective equipment before storing or re-using.  
**Storage** Keep container closed when not in use.. Keep from extreme heat and open flames.

#### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Limits** Methanol TWA 262 mg/m<sup>3</sup> STEL 328 mg/m<sup>3</sup>  
Perchloric acid TWA not set STEL not set  
**Engineering Controls** Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines. Use only with adequate ventilation.  
**Personal Protection** Protective gloves and glasses should be worn when using this product in the laboratory.

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid	<b>Vapour Pressure</b>	Not available
<b>Colour</b>	Brown	<b>Vapour Density</b>	Not available
<b>Odour</b>	Mild alcohol odour	<b>Coefficient of Distribution</b>	Not available
<b>Water Solubility</b>	Soluble	<b>0</b>	Not available
<b>pH</b>	<1 Irritant but not corrosive.	<b>Volatility</b>	Not available
<b>Boiling Point</b>	Not available	<b>Odour Threshold</b>	Not available
<b>Freezing Point</b>	Not available	<b>Evaporation Rate</b>	Not available

#### SECTION 10 STABILITY AND REACTIVITY

**Stability** This product is believed to be stable at normal temperatures and pressure.  
**Materials to avoid** No particular incompatibilities.  
**Hazardous Decomposition Products** None. Product is unlikely to spontaneously decompose.  
**Hazardous Polymerisation** This product is unlikely to spontaneously polymerise.

#### SECTION 11 TOXICOLOGICAL INFORMATION

Not available for the product.

#### SECTION 12 ECOLOGICAL INFORMATION

Not available for the product. Perchloric acid is recognised as an environmental pollutant as it is harmful to aquatic organisms. Care should be taken to ensure the product does not enter waterways.

#### SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state and federal regulations. Acidic solution, neutralise before disposal if large volumes, otherwise dilute with large volumes of water.

#### SECTION 14 TRANSPORT INFORMATION

Not a Dangerous Good. No special requirements for transport by road, air or rail.

#### SECTION 15 REGULATORY INFORMATION

This product has been classified according to the hazard criteria of the CPR (Controlled Product Regulations, Canada) and the MSDS contains all the information required by the CPR. Classified as hazardous according to criteria of OSHA.

#### SECTION 16 OTHER INFORMATION

**Label Text** Please read all labels carefully before using this product.  
**Acronyms** ADG Code Australian Code for the Transport of Dangerous Goods by Road and Rail  
CAS Number Chemical Abstracts Service Registry Number  
IARC International Agency for Research on Cancer  
NOHSC National Occupational Health and Safety Commission (Australia)  
OSHA Occupational Safety and Health Administration (U.S.A.)  
SUSDP Standard for the Uniform Scheduling of Drugs and Poisons (Australia)  
UN Number United Nations Number

**Preparation** This MSDS has been prepared according to international guidelines and is suitable for use in Canada, USA, Mexico, Japan, Europe, UK, Australia and other countries.  
This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.  
MSDS prepared by NuSep.

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